

# Data Description Exchange Services for Heterogeneous Vehicle and Spaceport Control and Monitor Systems, Phase I

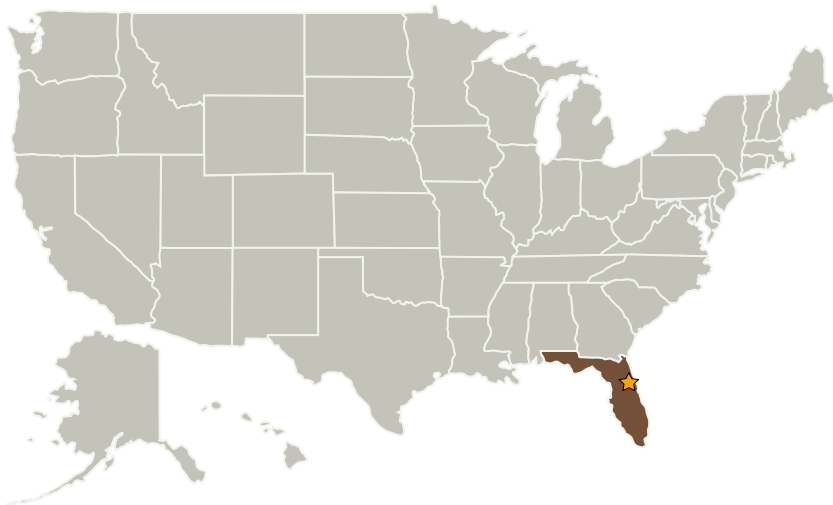
Completed Technology Project (2004 - 2004)



## Project Introduction

CCT proposes an advanced data description exchange approach for space/spaceport systems that will provide a generic platform independent software capability for exchange of semantic control and monitoring information. This new strategy will reduce development, operations, and support costs for legacy and future systems that are part of ground and space based distributed control systems. It will also establish a space systems information exchange model that can support future highly interoperable and mobile software systems. The concept seeks to provide a solution that will ease the adoption of a common data definition and exchange standard for legacy and future systems by minimizing or eliminating the need for custom software modifications. Phase 1 of the research will determine the viability of creating common access services for the space ground systems domain based on use of emerging exchange standards for telemetry, and drive out architecture strategies for cross platform generation of monitoring (e.g. health and status) service middleware. Phase 2 will seek to expand the scope of the target domain to also include control services and create a complete usable suite of services for a broader range of heterogeneous systems.

## Primary U.S. Work Locations and Key Partners



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## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### Lead Center / Facility:

Kennedy Space Center (KSC)

### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★ Kennedy Space Center(KSC)	Lead Organization	NASA Center	Kennedy Space Center, Florida
Command and Control Technologies Inc	Supporting Organization	Industry	Titusville, Florida

## Primary U.S. Work Locations

Florida

## Project Management

**Program Director:**

Jason L Kessler

**Program Manager:**

Carlos Torrez

**Principal Investigator:**

Rodney A Davis

## Technology Areas

**Primary:**

- TX06 Human Health, Life Support, and Habitation Systems
  - └ TX06.2 Extravehicular Activity Systems
    - └ TX06.2.3 Informatics and Decision Support Systems